

CITY OF WAUKEGAN



DOWNTOWN STREETSCAPE STANDARDS

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City of Waukegan Streetscape Elements

Introduction

As part of its downtown, the City of Waukegan feels a pedestrian-friendly character of the streetscape lends to the charm and ambience of these districts. Elements that are characteristic of a pedestrian-oriented streetscape include narrow rights-of-way, numerous storefronts with display windows and a high volume of pedestrian traffic. Care should be taken to maintain and enhance these elements within the downtown.

Attention should be paid to all streetscape/pedestrian zones and to ensure that those created, altered and amended by future developments continue to enhance Waukegan's pedestrian-friendly character. Special consideration must be given to enhancing and providing safe, efficient movement for these districts' users.

Overall, a common streetscape theme, even with minor style variations, will promote a cohesive City identity easily recognizable between the downtown, lakefront and institutional areas within the downtown. This theme is expressed in the selected streetscape family, or palette, which is used in public, semi-public and private streetscape and open space areas.

The City's streetscape elements should be placed in high traffic areas and grouped to provide the greatest public benefit. They should be coordinated and consistent along the street. And all elements should be of high quality and durability. Streetscape design for all development sites should be coordinated with the overall streetscape design of the districts or adjacent streets to reinforce a coordinated physical character for the area. For example, lighting for a new development's pedestrian plaza should be similar to the City streetlights installed on adjacent district streets. Model names, suggested manufacturers and specifications for streetscape elements are listed in Appendices A and B.

Family of Streetscape Elements

Benches with Backs

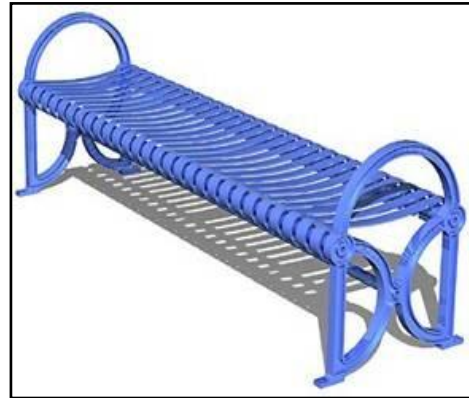
New developments should find ways to include pedestrian seating into the overall site design and open space. Benches should be placed in the parkway in unobtrusive locations and considered in private open spaces. They should be placed in higher intensity pedestrian traffic areas and/or to provide convenient seating opportunities. Benches with backs shall be a 6-foot standard length. Benches should also be incorporated into new multi-family and institutional uses. Specifications for the bench can be found in the Appendix on page 11.



<p><u>Victor Stanley</u> City Sites Series • CR-18 • 6'-0" long • Cast iron supports • All steel-welded assembly • Color: Black • Price (as of 5/27/08): \$1,148.00 w/o intermediate armrest. Intermediate armrest: \$124.00 • Bronze plaque (4" x 6") (4 lines with 14 characters per line maximum): \$160.00 • Specifications in Appendix</p>

Backless Benches

New developments should find ways to include pedestrian seating into the overall site design and open space. Backless benches should be placed in the parkway and considered in private open spaces. They should be placed in more locations than the standard bench to provide less-obtrusive seating opportunities. Backless benches shall be a 6-foot standard length. Backless benches also provide the flexibility of what direction the person can face. Specifications for the bench can be found in the Appendix, on page 12.



Victor Stanley City Sites Series • CR-16 • 6'-0" long • Cast iron supports • All steel-welded assembly • Color: Black • Price (as of 5/27/08): \$964.00 • Specifications in Appendix

Movable Planters

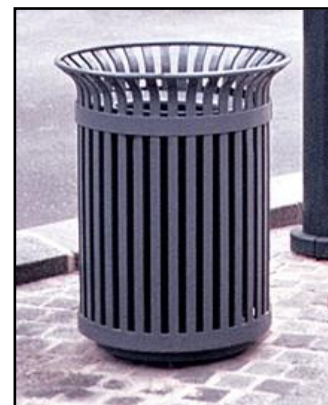
Movable planters are encouraged for sidewalks and open spaces too narrow to accommodate raised curb planters. Planters should also be incorporated into new multi-family and institutional uses. Specifications for the planter can be found in the Appendix, on page 13.



Victor Stanley, Inc. Ironsites Series • S-24 • All steel-welded assembly • 18-gallon capacity Polyethylene liner • Color: Black • Price (as of 5/27/08): \$798.00 • Specifications in Appendix

Waste Receptacles

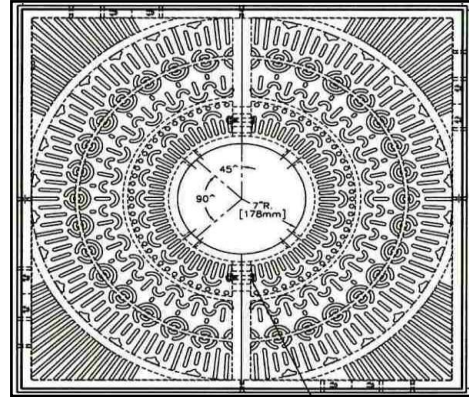
Waste receptacles should typically be placed on each corner and at least one mid-block in high-pedestrian traffic areas such as Genesee Street. Institutional uses should consider waste receptacles at discreet locations. Publicly-accessible open spaces shall provide the same model of waste receptacles. Specifications for the waste receptacle can be found in the Appendix, on page 14.



Victor Stanley, Inc. Ironsites Series • S-35 • 24 gallons • Plastic liner • All steel-welded assembly • Color: Black • Price: (as of 5/27/08): \$698.00 w/o domelid ashtray • Domelid ashtray: \$224.00 • Specifications in Appendix

Tree Grates

Tree grates should be used in parkway/pedestrian zones within the downtown where space limitations occur. The standard tree grate for the downtown is provided by Neenah Foundry Company. Specifications for the tree grate can be found in the Appendix, on page 15.



Neenah Foundry Company Greenwich Series • 48" square • 14" diameter tree opening • 3/8" typical slot openings • 290 pounds per set • Color: Unfinished

Decorative Fencing

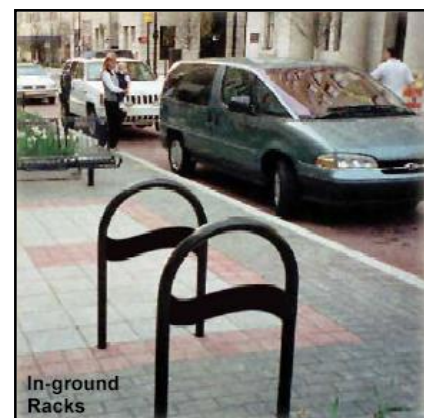
Only decorative fencing shall be used where appropriate to enhance and define open spaces, landscaped areas, and building entrances. Such fencing should not be more than three or four feet in height. Solid fencing shall be avoided unless used for screening of service areas. Chain link fences are strictly prohibited. Landscaping and decorative fencing, using the city standard, is required along all public street frontages to obscure the view of surface parking areas.



Monument Iron Works Imperial D Modified Series • 3 rails, 1 row of 4" rings • 6'-0" sections • 3' height • 3/4" solid steel pickets • Color: Black

Bicycle Racks

Bicycle racks shall be located in high bicycle traffic areas along pedestrian and vehicular zones. Racks should be sited to not impede the pedestrian free zone or seating/gathering areas. Surface and structural parking lots shall allocate spaces for bicycle parking. Publicly-accessible open spaces shall provide bicycle racks using the same or coordinating model style. Bicycle racks should also be incorporated into new multi-family and institutional uses. Specifications for the bicycle rack can be found in the Appendix, on page 16.



Cycle-Safe, Inc. Vintage Rack Series • 12" radius • 2" tube • 24" x 36" (at grade) • Weight varies depending on model • All steel assembly • Color: Black • Specifications in Appendix

Decorative Street Lighting

A selected City lighting fixture should be consistent among various districts. New development shall provide street lighting that conforms to a City street lighting plan on public rights-of-way or parkways that border the property. Lighting in the districts should be spaced equally apart



and set at an appropriate spacing to achieve desired light illumination levels set by a qualified lighting engineer. The Washington Postlite luminaire light fixture, the Boardwalk Teardrop luminaire light fixture and decorative North Yorkshire cast iron and steel pole with weatherproof receptacles must be used throughout the downtown and shall conform to the Specifications in Appendix B. Mounting heights will vary in areas depending on final spacing and desired illuminant levels. Lighting should enhance pedestrian areas with minimal glare onto adjacent properties/residential areas. Lighting should extend from the street into public, semi-public, and select private open space, vehicular use areas and publicly accessible alleys. Required accessory equipment for such lighting include banner arms, the Annapolis Crossarm, and the Boston Harbor cast aluminum arm.

Newspaper Corrals

While newspaper boxes serve an important function downtown, they become problematic when placed improperly or placed in poor locations. Newspaper corrals shall be installed by the City of Waukegan and only at the intermodal station and other key locations throughout the downtown to eliminate the random placement of newspaper boxes and eliminate clutter. Newspaper and other publication agencies must contact the City of Waukegan for appropriate permits and licensing.



Trash/Equipment Screening

For all new developments and loading areas, dumpsters and outdoor utility equipment shall be consolidated as much as possible and thoroughly screened with year-round solid screening. Said screening shall be of a material and style which replicates the materials of the building.

Decorative Paving

Decorative brick pavers should be used along sidewalks, at corners, and/or in plazas to enhance the attractiveness of an area and to define pedestrian activity areas. Pavers, or stampers, should also be set into streets/driveways to define pedestrian crosswalks or special pedestrian zones. Such treatments are intended to reduce traffic speeds, connect pedestrian walkways, and enhance a site's attractiveness and physical character. Where decorative pavers are not used,

concrete walks and plazas should include designed scoring, and finishes improving the appearance of such areas. In new developments in the downtown, concrete should be placed as a banding in combination with the decorative brick paver sidewalk. The City encourages the use of brick pavers in high impact streetscape spaces such as building entries, plazas, corner pocket bump-outs and pocket parks such as Jack Benny Plaza. Patterns of sidewalk materials and pavers should be consistent with the surrounding character or should establish a character if none exists. All sidewalks/pedestrian areas shall be handicapped-accessible.



Decorative Water Features/Drinking Fountains

Drinking fountains should be considered for high pedestrian traffic areas or open spaces only. The design should coordinate with the overall streetscape design theme and family of elements. Decorative fountains that are proportionate to and appropriate with their surroundings are encouraged in open spaces. If used, fountain design should carefully consider maintenance and safety.

Public Art

Public art can create a framework to organize open spaces, integrate building and landscape design or highlight a functional element such as a fountain. Where appropriate to new developments, public art should be provided to enhance the City's character and convey historical or social significance.

Pedestrian Zone Landscaping

Streetscapes within the downtown areas should be designed to provide pedestrians with shade and visual interest. Providing adequate landscaping within the pedestrian zones is an essential element to maintaining and enhancing the City's streetscape character. Irrigation and appropriate drainage are recommended for all landscaped areas, especially for raised planters.

Public Signs/Community Wayfinding

Consistent, well-designed and clearly-interpreted community wayfinding signs shall be installed by the City of Waukegan throughout the downtown as needed.



Raised Planters

Where possible, street trees and multi-tiered planting in continuous raised planters is encouraged. Multi-tier means providing additional plant material below street trees, such as shrubs, perennials and groundcovers. These additional plantings should provide a variety of coordinated color and seasonal interest to the streetscape. Continuous raised sidewalk planters

with expansive planting soil volumes are preferred. Raised curb planters should be approximately six inches in height and a minimum of 3.5 feet wide (inside dimension). However, a 5-foot inside width dimension is preferred. The raised planters should also contain a continuous decorative 18-inch metal railing around the curb top and be of a style reflecting the City standard or the proposed development plan. The length of these planters should be designed to accommodate store entrances, signs and other streetscape elements. Soil should be mounded to 6 inches above the top of the planter curb at the center of the planter. Mulch, groundcover, or other appropriate plantings in conjunction with the appropriate street trees should be provided. Where appropriate, adequate GFI electrical outlets should be provided for each individual street tree or combinations of trees in the Business Districts.

Special Pedestrian Zone/Streetscape Conditions

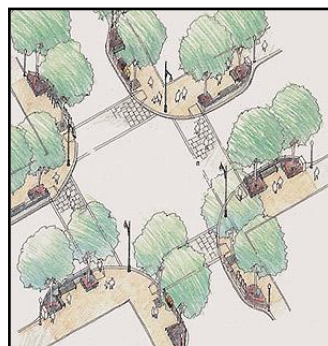
Outdoor Sidewalk Cafes

Dining establishments, coffeehouses or cafes are encouraged to provide adequately spaced outdoor seating. The City encourages the use of these small outdoor spaces to help enliven the streetscape. Careful attention must be paid to maintaining a pedestrian clear zone. Tables, chairs, umbrellas, service equipment and planters should be kept out of the pedestrian clear zone. A temporary or seasonal designed barrier element is encouraged to ensure a clear demarcation of these spaces. The business or property owner should erect a simple decorative railing, fence, planters or similar element. The height of such a barrier should be no greater than 36 inches and constructed of a solid durable material easily anchored and removed in the paved space. The design of the barrier should reflect the architectural style of the building or coordinate with the City streetscape elements. Maintenance and upkeep of the barrier is the sole responsibility of the business proprietor or building owner. The City may request a seasonal deposit or permit for outdoor café use.



Corner Bump Outs

The City encourages the use of bump-outs, or widened walkways, at street corners. These bump outs serve numerous functions: they slow traffic, highlight pedestrian crossings, encourage pedestrian gathering and allow for the incorporation of streetscape elements into the streetscape design. Bump-outs should only be used in the business districts at key intersections. They may also be used at corners where transitions occur from multiple family or institutional uses. Bump-outs must be designed to meet the engineering design specifications of the City and, when applicable, of IDOT to provide a safe and proper turning radius for vehicular traffic along with appropriate sight lines and compliance with ADA standards.



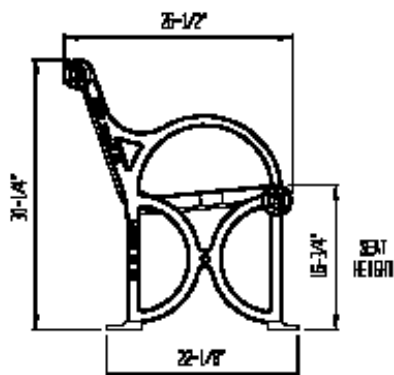
Bus Shelters

Bus shelters currently exist at selected PACE locations throughout the downtown. Where bus stops occur, a coordinated City sign system should be developed. The City, in cooperation with PACE and Viacom Outdoor, established a new bus shelter design known as the Paladium with Victorian treatments. Final location of these shelters should be determined by the summer of 2005. All new bus shelters should incorporate City sign elements.

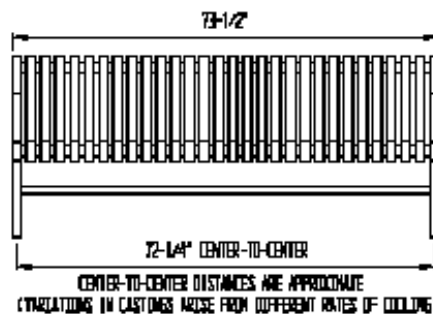
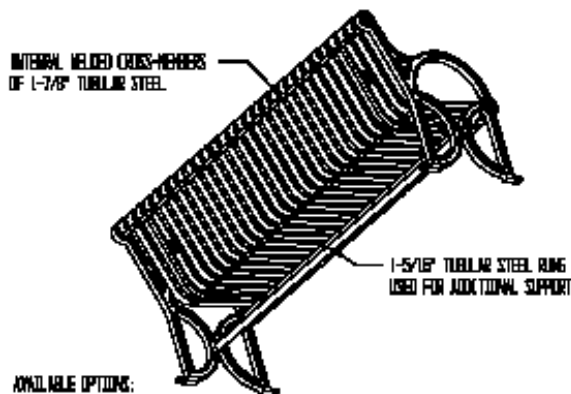
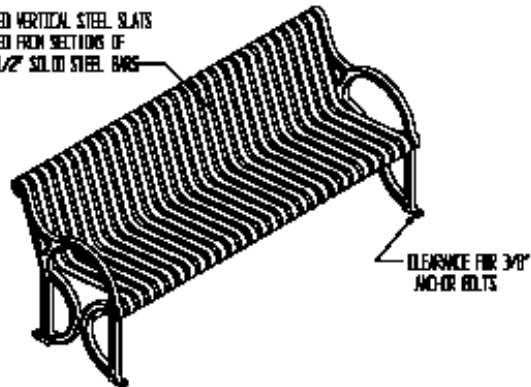


Appendix

Specifications



(26) SCROLLED VERTICAL STEEL SLATS
ARE FORMED FROM SECTIONS OF
1/4" x 1-1/2" SOLID STEEL BARS



AVAILABLE OPTIONS:
POWDER COATING
(10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE))
CUSTOM PLATES
ENGRAVED CAST BRONZE PLATES

INTERMEDIATE & CENTER ARMRESTS
4", 6", & 8" AVAILABLE WITH OPTIONAL ARMRESTS
LENGTHS
STANDARD 4"
STANDARD 6" LENGTH SHOWN
STANDARD 8"

- NOTES:
1. DUCTILE IRON CASTINGS COME WITH A TEN YEAR WARRANTY AGAINST BREAKAGE.
 2. DRAWING NOT TO SCALE. DO NOT SCALE DIMENSIONS.
 3. ALL FABRICATED METAL COMPONENTS ARE STEEL, SPOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.T.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH COAT AVERAGES 8-10 MILS (200-250 MICRONS).
 4. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
 5. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
 6. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
 7. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 8. THIS PRODUCT IS SHOWN FULLY ASSEMBLED.



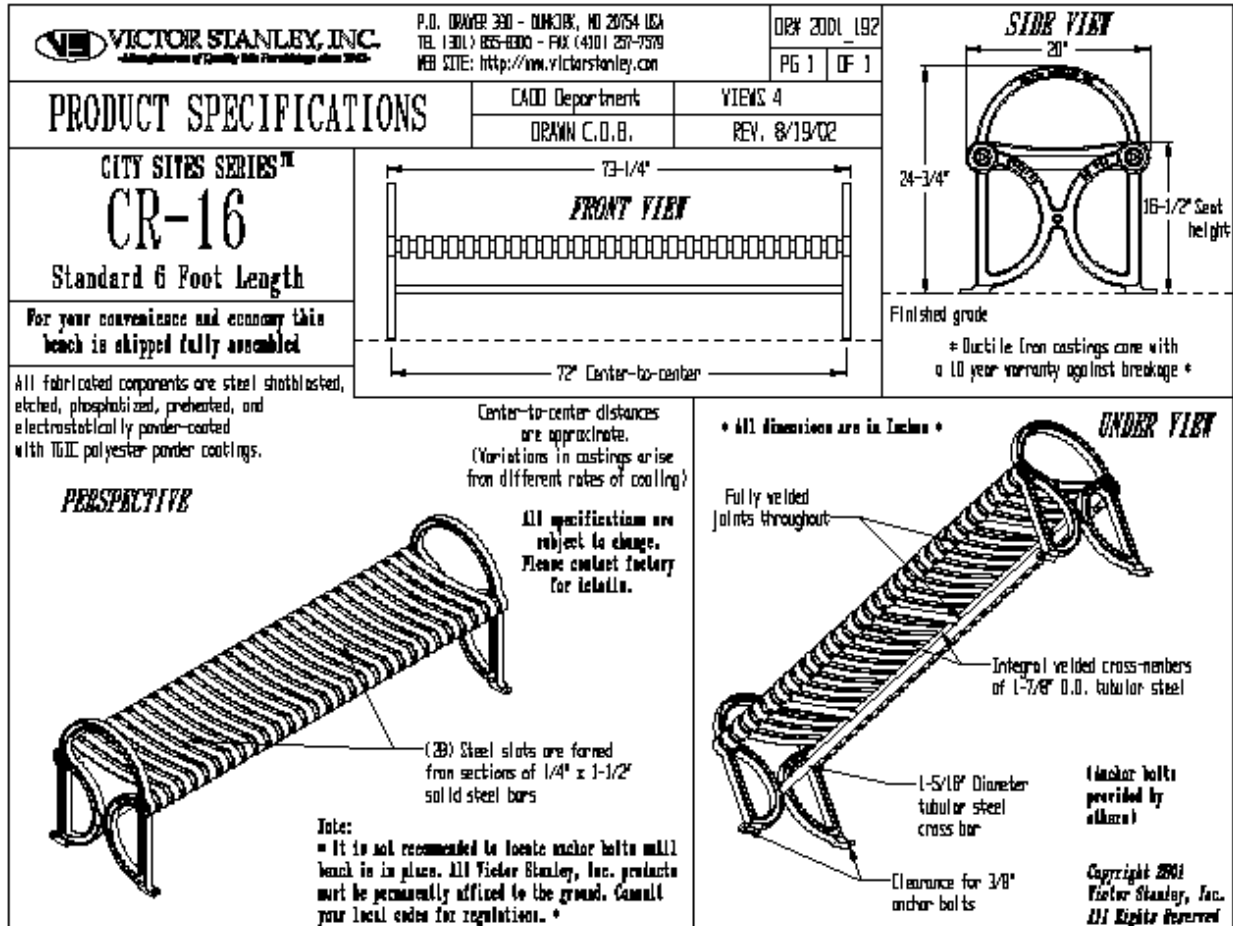
CR-18

CITY SITES SERIES STANDARD BENCH WITH DUCTILE IRON END FRAMES
SHOWN: STANDARD 6-FOOT LENGTH

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REF: MP25F01 DRAIN M.F.S. 2004-271

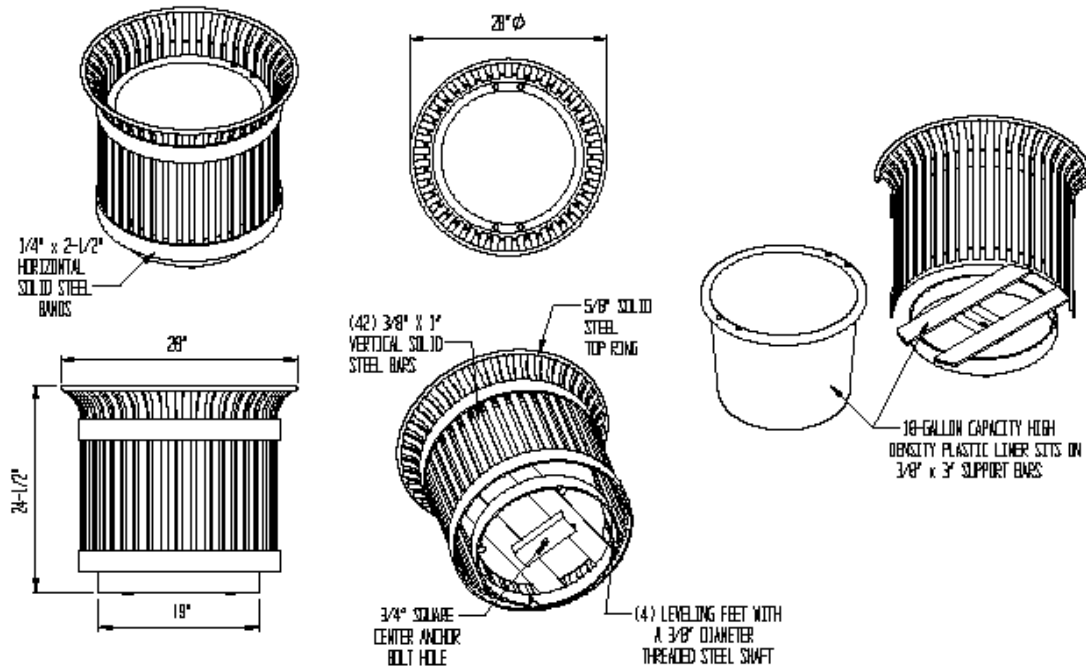
Bench Specifications

City Sites Series by Victor Stanley



Backless Bench Specifications

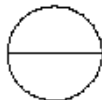
City Sites Series by Victor Stanley



AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

NOTES:

1. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH COAT AVERAGES 8-10 MILS (200-250 MICRONS).
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7. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.



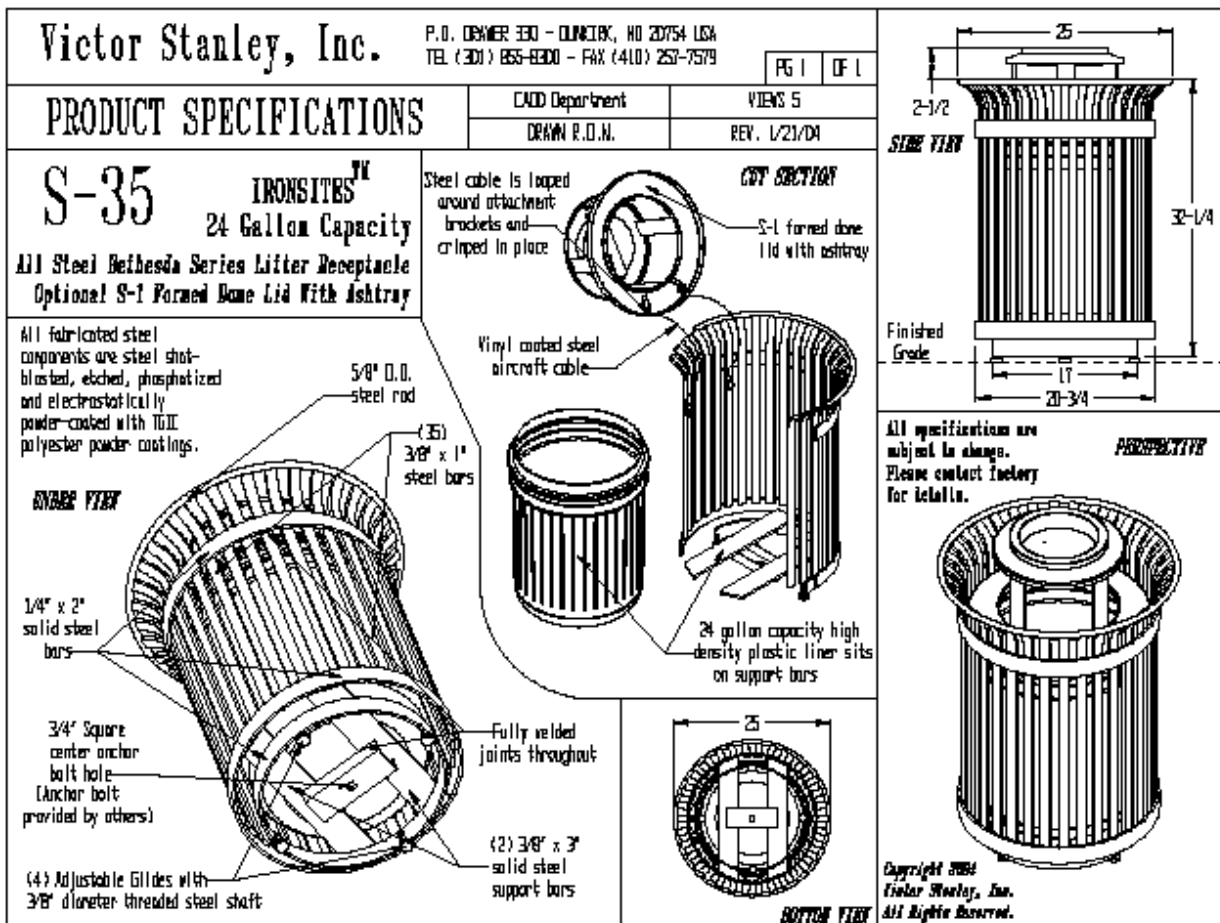
S-24

IRONSITES® SERIES 10-GALLON CAPACITY PLANTER

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Planter Specifications

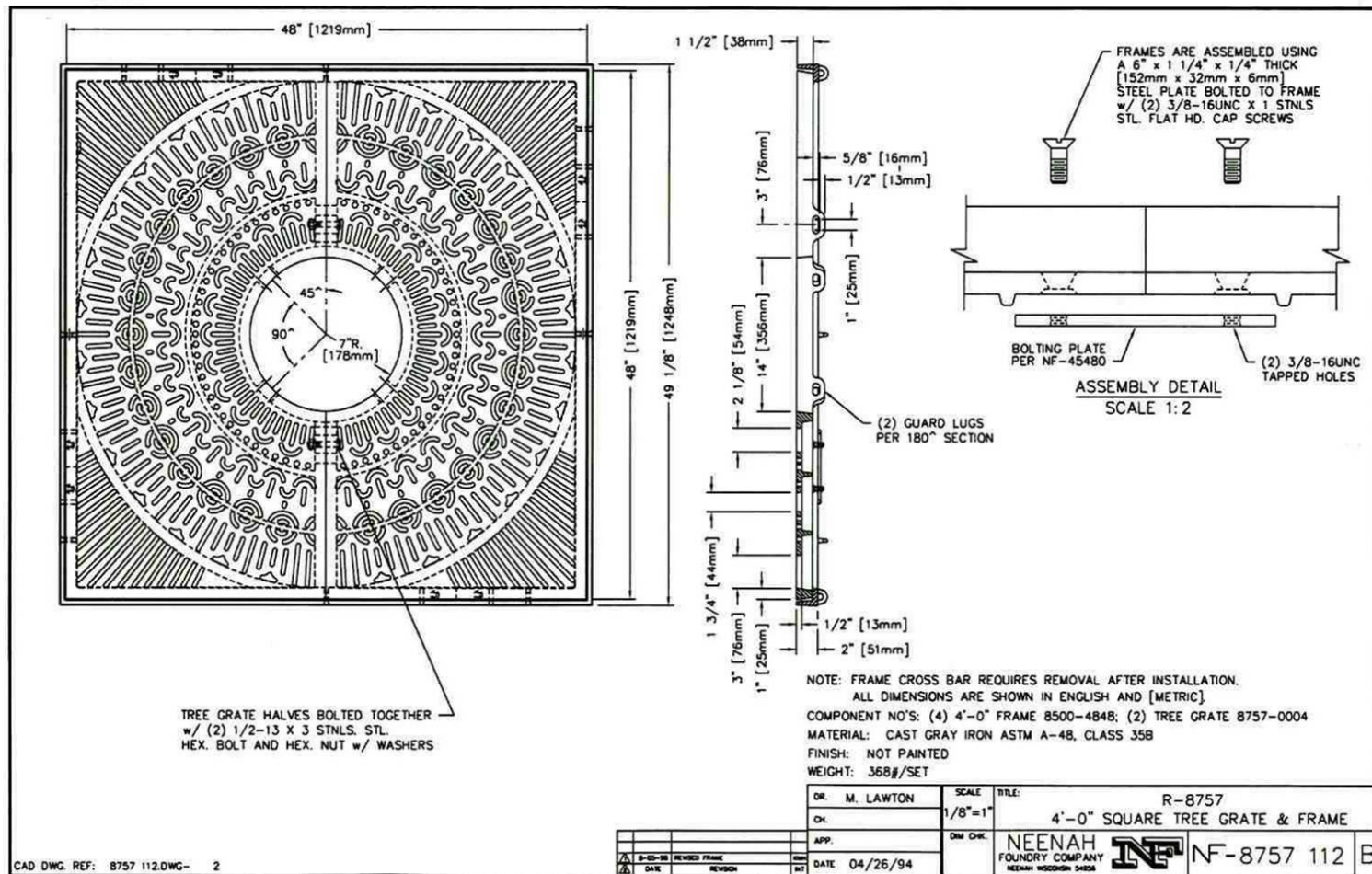
Ironsites Series by Victor Stanley



Receptacle Specifications

City Sites Series by Victor Stanley

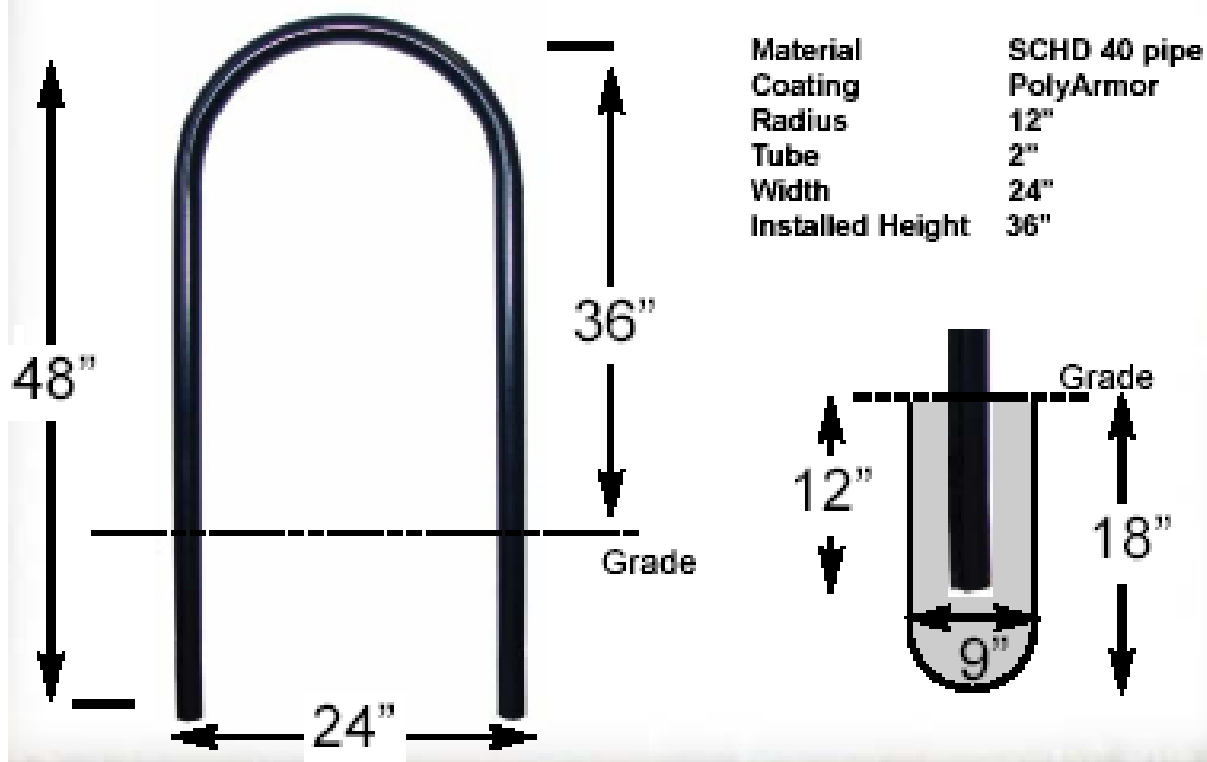
(Shown with optional Dome and Ashtray)



Tree Grate Specifications Greenwich Collection by Neenah Foundry

In-ground Installation

This is the standard for new construction and the most secure type of inverted-U installation. Can easily be installed in existing locations by drilling a 3"-4" core and grouting.



Bike Rack Specifications

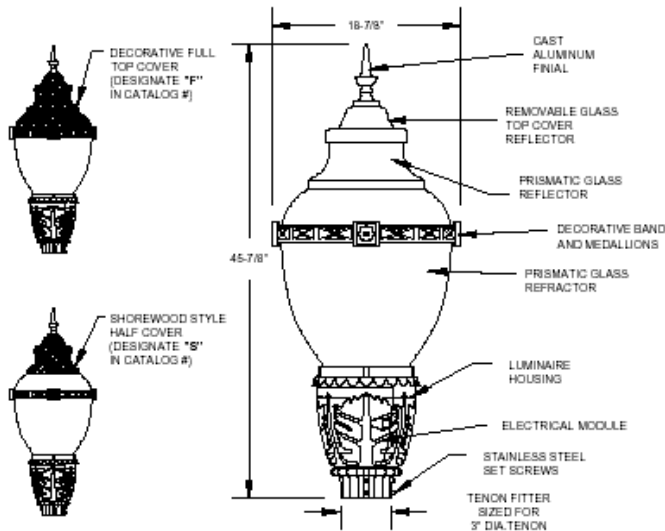
Vintage Rack Series by Cycle-Safe, Inc.

WASHINGTON POSTLITE® LUMINAIRE

ACORN STYLE WITH FINIAL, BAND AND MEDALLIONS

MAXIMUM WEIGHT - 80 lbs.

MAXIMUM EFFECTIVE PROJECTED AREA - 2.26 sq. ft.



ORDERING INFORMATION

EXAMPLE: WA 070HP 12 B 3 B 2 *

BALLAST TYPE (MODUL BASE)	VOLTAGE	HOUSING FINISH COLOR	OPTICAL TYPE
070HP = 70W HPS	12 = 120 VOLT	B = BLACK	3 = IES TYPE II DISTRIBUTION
100HP = 100W HPS	20 = 208 VOLT	Z = BRONZE	4 = IES TYPE IV DISTRIBUTION
150HP = 150W 55V HPS	24 = 240 VOLT	N = DARK GREEN	5 = IES TYPE V DISTRIBUTION
250HP = 250W HPS	27 = 277 VOLT	A = AS SPECIFIED	
400HP = 400W HPS	48 = 480 VOLT		
175MH = 175W METAL HALIDE OR 175W MERCURY			
250MH = 250W METAL HALIDE OR 250W MERCURY			
400MH = 400W METAL HALIDE OR 400W MERCURY			
BALLAST TYPE (MEDIUM BASE)	TRIM AND FINIAL FINISH COLOR (SEE ACCESSORY SHEET)	TRIM	
700HP = 70W HPS	B = BLACK	1 = BUD FINIAL, BAND AND MEDALLIONS	
100HP = 100W HPS	Z = BRONZE	2 = SPIKE FINIAL, BAND AND MEDALLIONS	
150HP = 150W 55V HPS	N = DARK GREEN	7 = ORNATE FINIAL, BAND AND MEDALLIONS	
700MH = 70W METAL HALIDE (NOT AVAIL. 480V)	G = GOLD		
100MH = 100W METAL HALIDE (NOT AVAIL. 480V)	A = AS SPECIFIED		
150MH = 150W METAL HALIDE (NOT AVAIL. 480V)			
175MH = 175W METAL HALIDE (NOT AVAIL. 480V)			
300IN = 300W INCANDESCENT (AVAIL. 120V ONLY)			

OPTIONS

F = FULL DECORATIVE ALUMINUM TOP COVER
S = SHOREWOOD ALUMINUM TOP STYLE COVER
(1/2 COVER)
PS = PROTECTED STARTER FOR HPS UNITS ONLY
PR = BUTTON STYLE PHOTOCONTROL
AVAILABLE ON 120, 208, 240, 277 VOLT ONLY.

ACCESSORIES

F1 = SINGLE FUSING FOR VOLTAGES 120, 240, 277
F2 = DOUBLE FUSING FOR VOLTAGES 208, 240, 480
WH8000 = HOUSE SIDE SHIELD, 90 DEGREES
WH8120 = HOUSE SIDE SHIELD, 120 DEGREES
WH8180 = HOUSE SIDE SHIELD, 180 DEGREES

Specifications

DESCRIPTION

The Washington Postlite Luminaire is styled to replicate the acorn luminaires that lighted streets in the first half of the 20th century. Designed for superior light control, ease of installation, and maintenance, the Washington Postlite has a precision prismatic glass optical system for true street lighting performance as well as beauty.

OPTICAL ASSEMBLY

The optical assembly is a precisely molded thermal resistant borosilicate glass reflector and refractor. The upper portion of this system incorporates a series of reflecting prisms that redirect over 50 % of the upward light into the controlling refractor while allowing a soft upright component to define the traditional acorn shape. Two decorative aluminum top cover options are available. The lower portion uses precisely molded refracting prisms to control the distribution of light to maximize utilization, uniformity, and luminaire spacing. The very top of this assembly is a removable spring loaded prismatic glass cover with decorative finial for toolless entry into the lamp chamber. The luminaire comes with a decorative band, and 4 medallions. Three unique optical assemblies are available, designed for IES type III, type IV, and type V distribution.

LUMINAIRE HOUSING

A decorative leaf style cast aluminum luminaire housing, cradles the optical assembly and provides an enclosure for the plug-in electrical module. The nickel plated lamp grip socket and the three station incoming line terminal block are prewired to a five conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3 inch high by 2-7/8 inch to 3-1/8 inch O.D. pipe tenon.

ELECTRICAL MODULE / LUMINAIRE HOUSING DOOR

The decorative leaf style cast aluminum housing door contains the ballast components and is held in place by two captive 1/4-20 stainless steel screws. A matching six conductor plug connects to the receptacle in the luminaire housing to complete the wiring. The door has a hook which, when engaged over a retaining bar in the luminaire housing, allows both hands to be free while making or breaking connections.

BALLAST

(Refer to Ballast Data Sheet for specific operating characteristics)

150 watt and below 120 volt High Pressure Sodium (HPS) ballasts are High Power Factor Reactor type. All other 150 watt and below are High Power Factor Autotransformer type. 250 and 400 watt HPS ballasts are Lead type.

All Metal Halide (MH) ballasts are Peak Lead Autotransformer type.

FINISH / MATERIAL

The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability. All castings utilize alloy #356 copper free aluminum for maximum corrosion resistance and all exposed hardware is stainless steel.

UL

The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

ARCHITECTURAL OUTDOOR ORDER #:

TYPE:

DRAWING NO: US-1453

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED.

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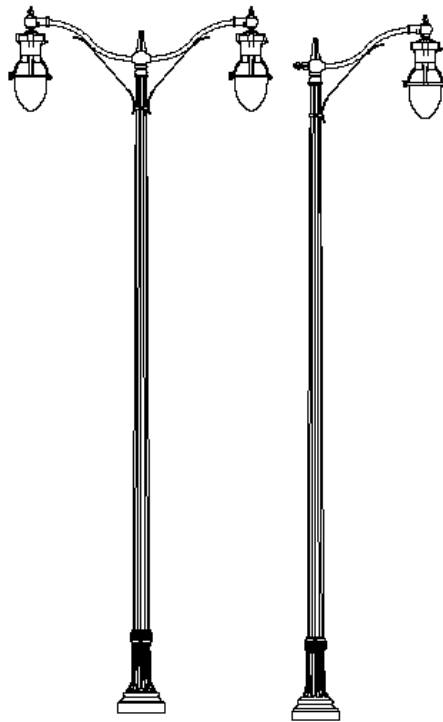
Washington Postlite Luminaire Specifications

	<p>Maximum Effective Projected Area - 2.23 ft² Maximum Weight - 61 lbs.</p>	<p>Boardwalk Utility</p>			
<p>ORDERING INFORMATION:</p> <p>COVER TYPE BWU = Boardwalk Utility</p>	<p>BALLAST TYPE (MOGUL BASE) 070HP = 70W HPS 100HP = 100W HPS 15AHP = 150W 55V HPS 250HP = 250W HPS 175MH = 175W MH OR MV 250MH = 250W MH OR MV 400MH = 400W MH OR MV</p>	<p>VOLTAGE 12 = 120 VOLT 20 = 208 VOLT 24 = 240 VOLT 27 = 277 VOLT 48 = 480 VOLT 34 = 347 VOLT MA = MT (PREWIRED TO 120V) MB = MT (PREWIRED TO 208V) MC = MT (PREWIRED TO 240V) MD = MT (PREWIRED TO 277V)</p>	<p>HOUSING COLOR A = As Specified B = Black N = Green Z = Bronze</p>	<p>OPTICS 2 = BOWL ASYMMETRIC TYPE II DIST. 3 = BOWL ASYMMETRIC TYPE III DIST. 5 = BOWL SYMMETRIC TYPE V DIST.</p>	<p>DECORATIVE OUTDOOR</p> <p>HOLOPHANE An eclair® Brands Company LEADER IN LIGHTING SOLUTIONS</p>
<p>Specifications</p> <p>DESCRIPTION The Boardwalk luminaire is styled to replicate the "teardrop" luminaires that lighted boulevards in the first half of this century. Designed for light control and ease of installation and maintenance, the Boardwalk has a precision optical system for true street lighting performance.</p> <p>WIRING CHAMBER The wiring chamber has a 1-1/2 inch, gasketed, NPT threaded entry for pendant mounting. A stainless steel set screw locks the unit in position. A three station terminal block will accept #14 through #2 wires and is prewired to one half of the plug assembly that connects to the removable electrical module.</p> <p>ELECTRICAL / REFLECTOR ASSEMBLY The electrical / reflector assembly hinges down from the wiring chamber for ease in wiring and to facilitate the removal of the electrical module. The assembly is secured in place by a stainless steel latch. The utilized electrical module consists of the ballast mounted to an aluminum plate that is easily removed by loosening two screws in keyhole slots. The disconnect plug connects the ballast to the terminal block in the wiring chamber. The socket is street lighting grade with nickel plated lamp grip shell, center contact backed by a coiled spring and glazed porcelain body. The anodized and brightened reflector is formed with flutes to control voltage rise in the lamp and to work in conjunction with the refractor to provide the desired distribution of light.</p> <p>REFRACTOR / DOOR ASSEMBLY The cast aluminum door cradles a teardrop or sag shaped, thermal resistant borosilicate glass refractor that controls the light to provide an I.E.S. symmetric or asymmetric cut off distribution. The combination of reflector, refractor and vertical burning lamp maximize efficiency and uniformity of illumination while controlling luminaire brightness. The refractor assembly and decorative skirt (when applicable) assembly hinges from the electrical / reflector assembly and is latched by a stainless steel, captive, wing nut assembly.</p> <p>BALLAST (Refer to Ballast Data Sheet for specific operating characteristics) 150 watt and below 120 volt High Pressure Sodium (HPS) ballasts are High Power Factor Reactor type. All other 150 watt and below are High Power Factor Autotransformer type. 250 watt HPS ballasts are Lead type. All Metal Halide (MH) ballasts are Peak Lead Autotransformer type.</p> <p>FINISH / MATERIAL The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability. All castings utilize alloy #356 aluminum for maximum corrosion resistance and all exposed hardware is stainless steel.</p> <p>U.L. LISTING U.L. listing suitable for wet locations at 40 degrees C.</p>					<p>ORDER #:</p> <p>TYPE:</p> <p>DRAWN: BHH</p> <p>DATE: 09-20-04</p> <p>DWG NO.: LUM BOARDWALK</p> <p>1 of 2</p>

Boardwalk Tear Drop Specifications

NORTH YORKSHIRE

Cast Iron and Steel Post, 20" Dia. Base
with Boston Harbour Cast Aluminum Crossarm
for Pendant Mounted Luminaires



Specifications

DESCRIPTION

The North Yorkshire lighting posts shall be cast iron and steel construction, massively tapered with a deep 16 flute pattern and a classic tapered fluted base. The post shall be shipped from the factory as a one piece unit with no multiple, slide over, or wraparound pieces. The Boston Harbour decorative crossarm(s) shall be all aluminum construction with a smooth uprising arm, decorative arm support, and a decorative swivel mounting adaptor for pendant mounted luminaires.

LIGHTING POST

Style: North Yorkshire
Height: 18', 21', or 23'
Tenon Size: 3" OD by 6" high
Base: 20" diameter
Shaft Material: 16 flute steel
Base Material: Heavy wall cast iron, ASTM A48 Class 30
Finish: Prime painted with red oxide primer
Anchor Bolts: (4) 3/4" x 24" L type hot dipped galvanized

CROSSARM

Style: Boston Harbour
Height: 22-3/4"
Width: 4', 6', or 8' (from center line of post to center line of luminaire)
Material: Heavy wall cast #356 aluminum alloy and schedule 40 aluminum pipe
Luminaire Mounting: 1-1/2" NPT threaded nipple, schedule 40 aluminum, for pendent mounted luminaires
Slipfitter: Arm(s) slipfit a 3" OD by 6" tall tenon
Finish: Prime painted with red oxide primer

ARCHITECTURAL OUTDOOR ORDER #:

TYPE:

DRAWING NO: US-1339

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED.

THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

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214 OAKWOOD AVENUE - NEWARK, OHIO 43055

SCALE: N/A
DRAWN: RAF
APP'D:
DATE: 05-02-02

North Yorkshire with Boston Harbour Crossarm Specifications

NORTH YORKSHIRE

Cast Iron and Steel Post, 20" Dia. Base
with Boston Harbour Cast Aluminum Crossarm
for Pendant Mounted Luminaires

BHC48: 48"
 BHC72: 72"
 BHC96: 96"

NY18/20 : 18'-0"
 NY21/20 : 21'-0"
 NY23/20 : 22'-10"

4"x6.5"x10" H.
 Door Opening for
 Anchorage and
 Wiring Access

Ø20"

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ORDERING GUIDE

Post

Post Series (Ht. / Base Dia.)	material / finish	options
NY18/20	- CIS/PP	-
NY21/20	- CIS/PP	-
NY23/20	- CIS/PP	-

Post Optional Equipment

Options	Description / Specification
WPRB	Weatherproof duplex receptacle located inside base. Specification: Receptacle shall be a duplex receptacle provided with a weatherproof enclosure mounted inside the base.
WPRT	Weatherproof receptacle located in the post. Specification: Receptacle shall be a duplex receptacle provided with a weatherproof cover mounted in the post, X'-X" above the ground.
CLD	Custom Logos cast into access door. Specification: Post shall be provided with the project logo cast into the access door as detailed.

Note: Banner arms, Flag pole brackets and other custom equipment are also available.

Crossarm

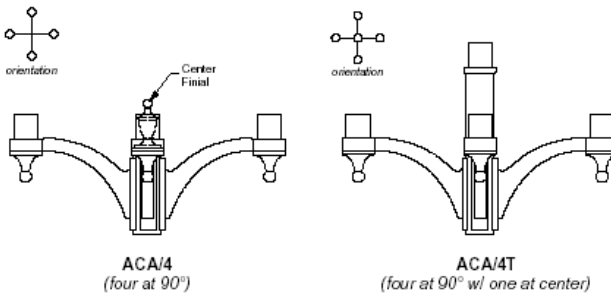
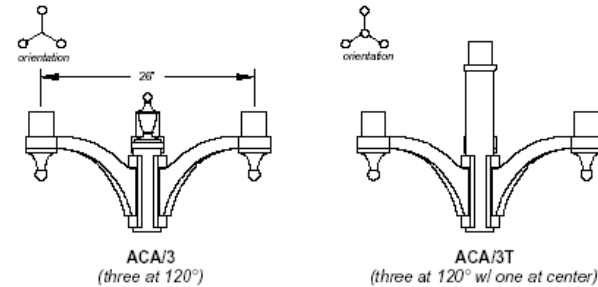
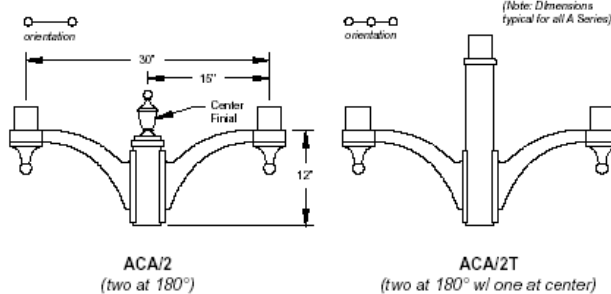
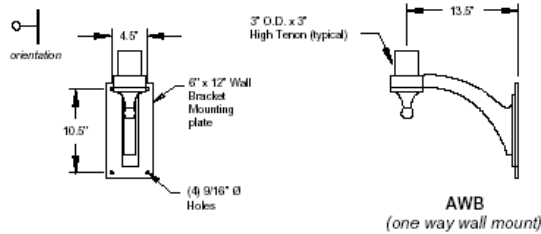
Series (Length / Luminaire No.)	Material / Finish
BHC48/1	CA/PP -
BHC48/2	CA/PP -
BHC72/1	CA/PP -
BHC72/2	CA/PP -
BHC96/1	CA/PP -
BHC96/2	CA/PP -

ANCHORAGE GUIDE

US-1339 Page 2 of 2

North Yorkshire with Boston Harbour Crossarm Specifications (cont.)

ANNAPOLIS Series Crossarms & Wall Bracket



SPECIFICATIONS

CONSTRUCTION

The crossarms and wall brackets shall be one-piece construction. The arms shall be welded to a center spool. For wall brackets the arms shall be welded to a flat wall plate. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS

The arms, finials, and center spool tenons, shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The center spool and wall bracket mounting plate shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

INSTALLATION

The crossarms shall slip-fit a post top tenon and attach with socket set screws. The center finial shall be removable. The wall bracket shall have four 9/16" dia. holes for mounting to the wall. (Bracket mounting hardware furnished by others.) Both crossarms and wall bracket shall have 3" O.D. tenons for luminaire mounting.

For finish specifications and color options see "Finish" section in catalog.

ORDERING GUIDE

Arms & Bracket Catalog #'s	Number of Luminaires Required
<input type="checkbox"/> AWB	one
<input type="checkbox"/> ACA/2	two
<input type="checkbox"/> ACA/2T	three
<input type="checkbox"/> ACA/3	three
<input type="checkbox"/> ACA/3T	four
<input type="checkbox"/> ACA/4	four
<input type="checkbox"/> ACA/4T	five

Material / Finish

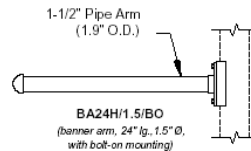
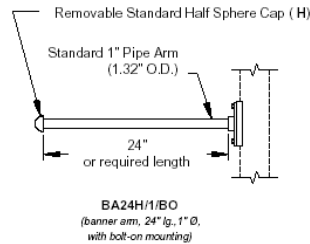
<input type="checkbox"/> -CA/BK	Cast Alum/Black
<input type="checkbox"/> -CA/DB	Cast Alum/Dark Bronze
<input type="checkbox"/> -CA/DG	Cast Alum/Dark Green
<input type="checkbox"/> -CA/PP	Cast Alum/Prime Painted
<input type="checkbox"/> -CA/CC	Cast Alum/Custom Color

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US-2001

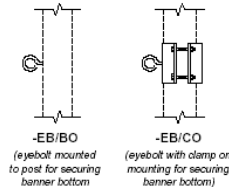
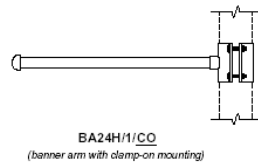
Annapolis Series Crossarm Specifications

Banner Arms Cast Aluminum

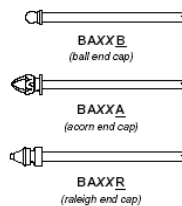
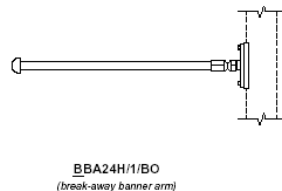


Other size Banner Arms Available:
BAXXH/.75 [banner arm, .75\"/>

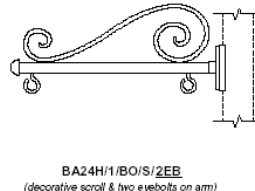
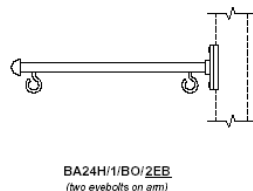
OTHER MOUNTING OPTIONS



OTHER OPTIONS



CUSTOMS



Banner arms can add substantial wind loading to the post you select.
Please coordinate the correct post size and style with the factory.

SPECIFICATIONS

DESCRIPTION

The banner arms shall consist of a round, extruded aluminum pipe and a removable cast aluminum end cap. Bottom eyebolts and banner arms with breakaway couplings, are optional and recommended because of the wind load from the banner.

CONSTRUCTION

The banner arm shall be welded to a mounting plate or a post clamp. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS

The end caps shall be, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The banner arm, mounting plate and post clamp shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION

The bolt-on banner arm shall bolt to a mounting channel provided on the side of the post with four stainless steel screws. Eyebolts shall screw into the post or clamp on. All clamp-on mountings shall clamp around the post, secured with four 3/8" hex head bolts. (Post dia. at mounting point must be specified.) A minimum mounting height of 10 feet is recommended for the bottom banner arm. (Arms are not designed for pedestrian interference.) (For information on specifying orientation and mounting heights see "Orientation Guide" in the back of the Accessories section of catalog.) (Banners to be provided by others.)

DIMENSIONS

The banner arms shall be available in 1.05", 1.32", 1.66" or 1.9" O.D. and to the specified length.

For finish specifications and color options see "Finish" section in catalog.

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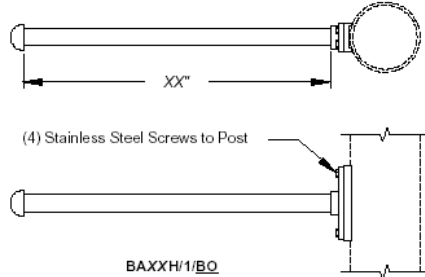
US-2400

Cast Aluminum Banner Arm Specifications

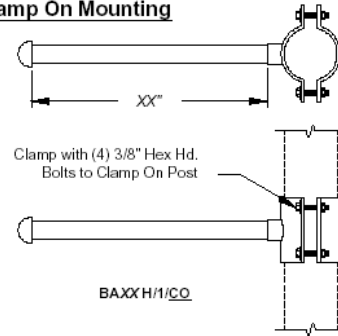
Banner Arms Cast Aluminum

MOUNTING DETAILS

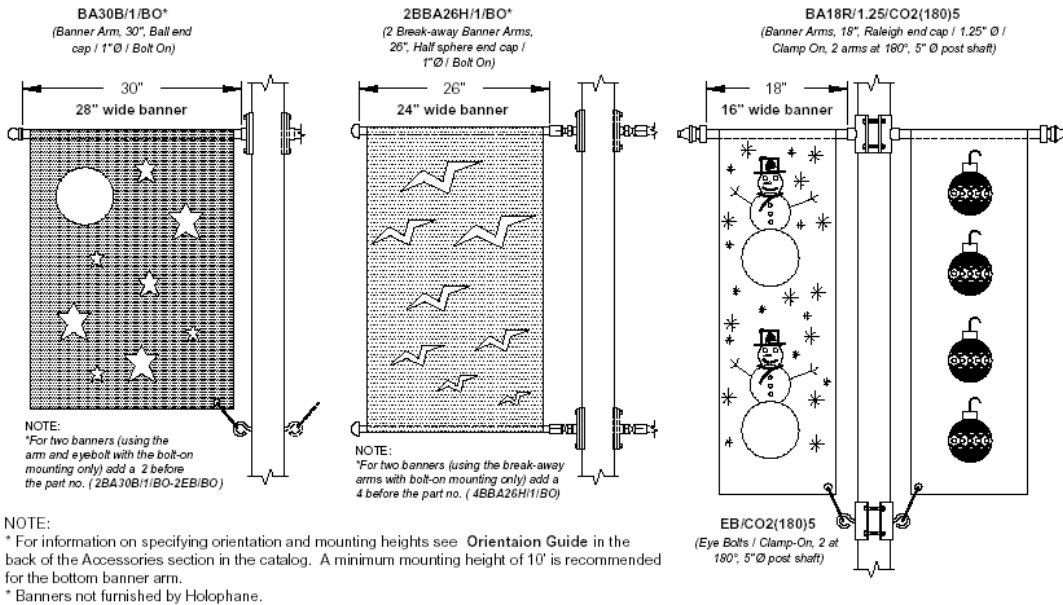
Bolt-On Mounting



Clamp On Mounting



SUGGESTED BANNER ARM USAGE



ORDERING GUIDE		sample catalog number	banner arm	end cap	Arm Ø	mounting option	-eyebolt	-material / finish
		2BBA24H/1/BO-2EB/BO-CA/BK	2BBA24	H	1	BO	-2EB/BO	-CA/BK
Banner Arms (check appropriate boxes) (fill in __ with desired arm length in inches) <input type="checkbox"/> BA __ Std. Banner arm <input type="checkbox"/> BBA __ Break-away Banner arm		Mounting Options (fill in __ with diameter of post shaft, at clamp, in inches) <input type="checkbox"/> /BO Bolt On (Bolts onto Post) <input type="checkbox"/> /CO Clamp On (Clamps around Post) <input type="checkbox"/> /CO2(180) __ Clamp On (two arms at 180°) <input type="checkbox"/> /CO2(90) __ Clamp On (two arms at 90°) <input type="checkbox"/> /CO3(90) __ Clamp On (three arms at 90°) <input type="checkbox"/> /CO4(90) __ Clamp On (four arms at 90°)		Options <input type="checkbox"/> /2EB Two Eyebolts on Arm <input type="checkbox"/> /S/2EB Decorative Scroll & Eyebolts on Arm		Eyebolts (for securing banner bottom) (fill in __ with diameter of post shaft, at clamp, in inches) <input type="checkbox"/> -EB/BO Bolt On Eyebolt (Bolts onto Post) <input type="checkbox"/> -EB/CO Clamp On Eyebolt (Clamps around Post) <input type="checkbox"/> -EB/CO2(180) __ Clamp On Eyebolt (two arms at 180°) <input type="checkbox"/> -EB/CO2(90) __ Clamp On Eyebolt (two arms at 90°) <input type="checkbox"/> -EB/CO3(90) __ Clamp On Eyebolt (three arms at 90°) <input type="checkbox"/> -EB/CO4(90) __ Clamp On Eyebolt (four arms at 90°)		
Banner Arm End Caps <input type="checkbox"/> H Std. Half Sphere Cap <input type="checkbox"/> B Ball Cap <input type="checkbox"/> A Acorn Cap <input type="checkbox"/> R Raleigh Cap		Banner Arm Diameters <input type="checkbox"/> /1.75 3/4" Pipe (1.05" O.D.) <input type="checkbox"/> /1 Std. 1" Pipe (1.32" O.D.) <input type="checkbox"/> /1.25 1-1/4" Pipe (1.66" O.D.) <input type="checkbox"/> /1.5 1-1/2" Pipe (1.9" O.D.)		Material / Finish <input type="checkbox"/> -CA/BK Cast Alum./Black (Std.) <input type="checkbox"/> -CA/DB Cast Alum./Dark Bronze <input type="checkbox"/> -CA/DG Cast Alum./Dark Green <input type="checkbox"/> -CA/CC Cast Alum./Custom Color <input type="checkbox"/> -CA/PP Cast Alum./Prime Painted		US-2400		

Cast Aluminum Banner Arm Specifications (cont.)